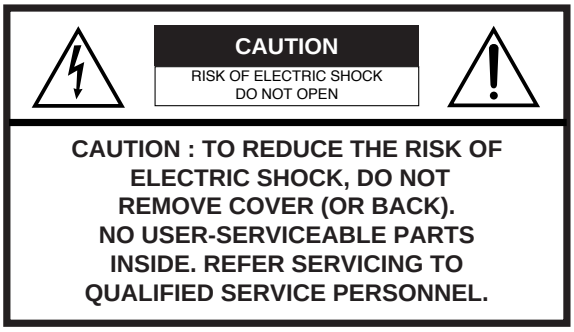
UNPACKING AND

Congratulations on Your Purchase!

Your new high fidelity pre amplifier is designed to deliver maximum enjoyment and years of trouble free service. Please take a few moments to read this manual thoroughly. It will explain the features and operation of your unit and help ensure a trouble free installation. Please unpack your unit carefully. We recommend that you save the carton and packing material. They will be helpful if you ever need to move your unit and may be required if you ever need to return it for service. Your unit is designed to be placed in a horizontal position and it is important to allow at least two inches of space behind your unit for adequate ventilation and cabling convenience.
To avoid damage, never place the unit near radiators, in front of heating vents, in direct sunlight, or in excessively humid or dusty locations. Connect your complementary components as illustrated in the following section.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Caution : Do not block ventilation openings or stack other equipment on the top.

FOR U.S.A.

■**Note to CATV System Installer:** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

■**FCC INFORMATION**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

READ THIS BEFORE OPERATING

FOR YOUR SAFETY

Units shipped to the U.S.A. and Canada are designed for operation on 120 V AC only.

Safety precaution with use of a polarized AC plug. However, some products may be supplied with a nonpolarized plug.

CAUTION : *To prevent electric shock, match wide blade of plug to wide slot, fully insert.*

ATTENTION : *Pour eviter les choc electriques, introduire la lame la plug large de la borne*

FOR YOUR SAFETY

Units shipped to Australia are designed for operation on 240 V AC only.
To ensure safe operation, the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Improper extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.
PAN-EUROPEAN UNIFIED VOLTAGE
All units are suitable for use on supplies 230-240 V AC.

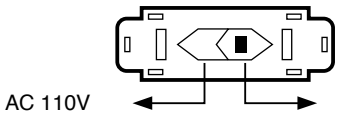
FOR YOUR SAFETY

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

AC VOLTAGE SELECTION

This unit operates on 110-220V AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

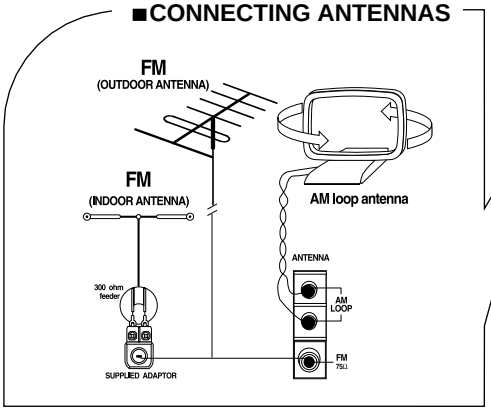
ENGLISH

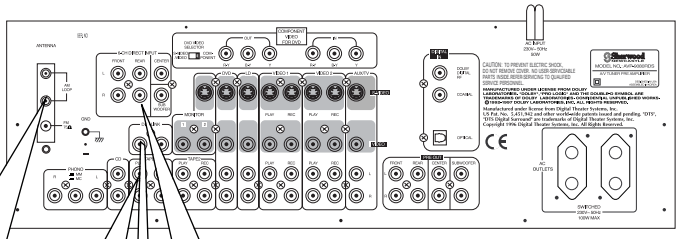
CONTENTS

ENGLISH

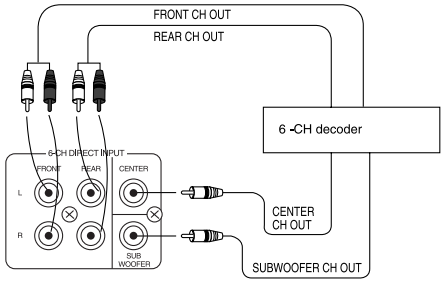
- Do not plug the AC input cord into the wall AC outlet until all connections are completed.
- Be sure to connect the white RCA cord to the L (left) and the red RCA cord to the R (right) jacks when making audio connections.
- Change the position of the FM indoor antenna until you get the best reception of your favorite FM stations.
- A 75 Ω outdoor FM antenna may be used to further improve the reception.
  Disconnect the indoor antenna before replacing it with the outdoor one.
- Place the AM loop antenna as far as possible from the receiver, TV set, speaker wires and the AC input cord.
  Point it in the direction that offers the best reception.
- If the reception is poor with the AM loop antenna, an AM outdoor antenna can be used in place of the AM loop antenna.
- Make connections firmly and correctly. If not, it can cause loss of sound, noise or damage to the pre amplifier.
- If the electricity fails or the AC input cord is left unplugged for about 2 weeks, the memorized contents will be cleared.
  Should this happen, memorize them again.

■CONNECTING ANTENNAS



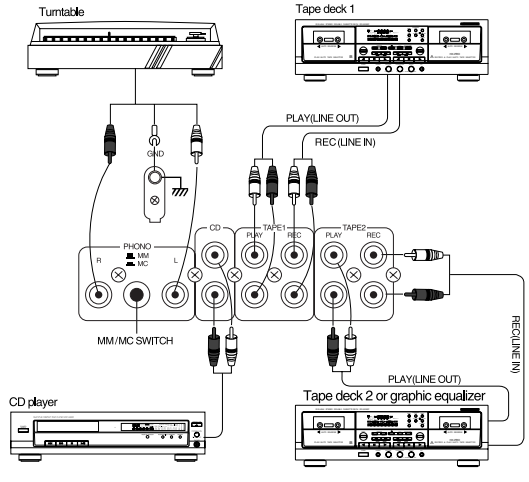


■CONNECTING 6-CH DIRECT INPUTS



✻Use these jacks to connect the corresponding analog outputs of a separate 6-CH decoder or DVD player with 6-CH output. (For details, see the operator's manual of the other component.)

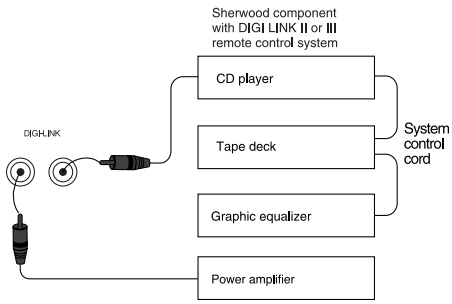
■CONNECTING AUDIO COMPONENTS



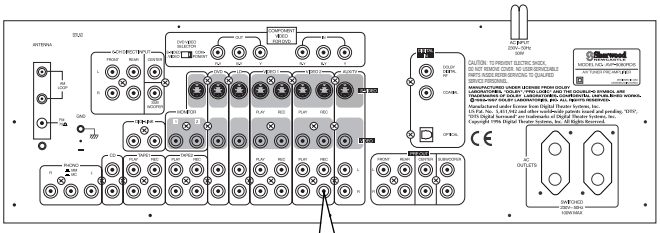
✻To select the gain and the input impedance of the phono input circuitry according to the phono cartridge type of the turntable connected, set the MM/MC switch to either " " for MC(moving coil) or " " for MM(moving magnet).

- The TAPE 2 MONITOR IN/OUT jacks may also be connected to the LINE OUT/IN jacks of an optional graphic equalizer.

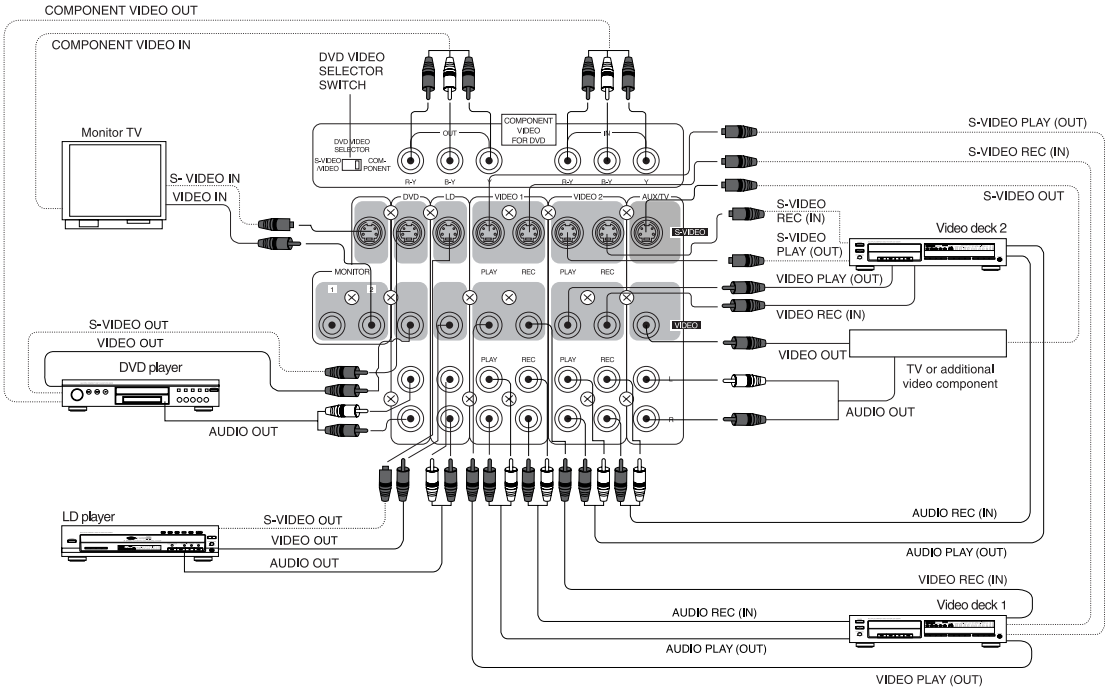
■CONNECTING SYSTEM CONTROL



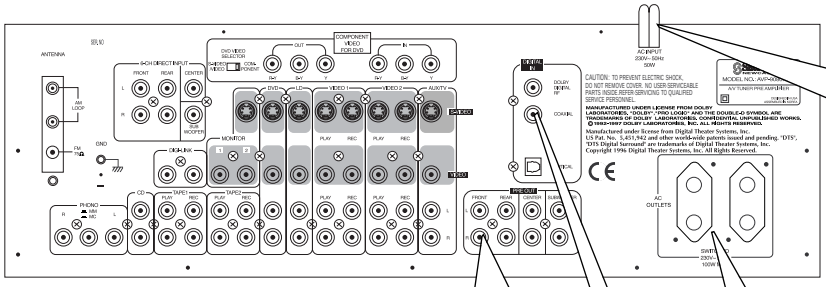
- Connect this to the DIGI LINK jack of the external Sherwood component that uses the DIGI LINK II or III remote control system.



■ CONNECTING VIDEO COMPONENTS



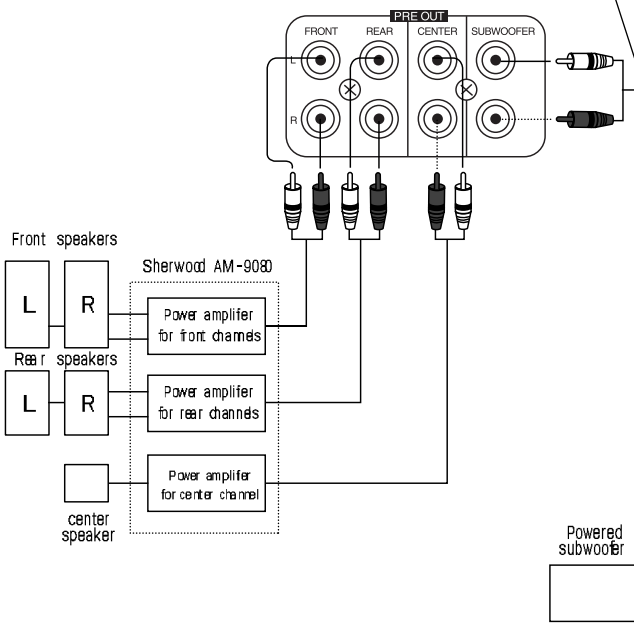
- Some video components such as DVD player or TV set, etc. have the COMPONENT VIDEO IN/OUT jacks as well as the S-VIDEO REC/PLAY or the normal VIDEO REC/PLAY jacks.
- When connecting the COMPONENT VIDEO IN jacks of this unit to the corresponding COMPONENT VIDEO OUT jacks of a DVD player respectively, be sure that the DVD VIDEO SELECTOR switch is set to “COMPONENT”. When the COPONENT VIDEO connections are not made, be sure that the DVD VIDEO SELECTOR switch is set to “S-VIDEO/VIDEO”.
  Note : When the DVD VIDEO SELECTOR switch is set to “COMPONENT”, a signal input into the S-VIDEO PLAY jack or the normal VIDEO PLAY jack of DVD will not be output in the MONITOR S-VIDEO jack or the MONITOR normal VIDEO jack.
- A signal input into the S-VIDEO PLAY jack will be output in only the S-VIDEO REC jack and a signal input into the normal VIDEO PLAY(or the COMPONENT VIDEO IN) jack will be also output in only its own VIDEO REC (or OUT) jack.
- However, the video signal will be output in the MONITOR VIDEO jack according to the video signal priority (“COMPONENT” > “S” > “normal”) as follows:
- For better picture quality, use the S-VIDEO jacks to connect video components with the S-VIDEO REC(IN)/PLAY(OUT) jacks. When using a video component with the COMPONENT VIDEO IN/OUT jacks, use the COMPONENT VIDEO jacks.
- A signal input into the S-VIDEO PLAY jack will be output in both the MONITOR S-VIDEO jack and the MONITOR normal VIDEO jack and a signal input into the normal VIDEO PLAY jack will be output in only the MONITOR normal VIDEO jack.
- When using a DVD player, a signal input into the COMPONENT VIDEO IN jack will be output in the COMPONENT VIDEO OUT jack as well as the MONITOR S-VIDEO jack and the MONITOR normal VIDEO jack.
  Note : The On Screen Display function is not available when using the COMPONENT VIDEO connections.



■ AC INPUT CORD

Plug this cord into a wall AC outlet

■ PRE OUT connections



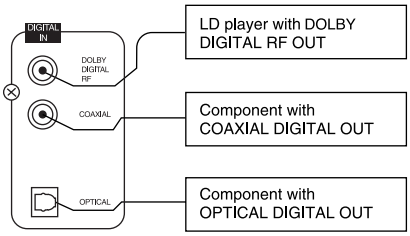
- Connect the PRE OUT jacks to the power amplifers connected to speakers or to powered speaker respectively.
- We recommand that you use Sherwood power amplifer AM-9080 for 5 channels (front L/R, rear L/R, center) for easy operation and installation.
- Although left and right outputs are offered for CENTER and SUBWOOFER, both channels produce the same signal.
  Connect one or both channels as required by the power amplifier or powered subwoofer used.

■ SWITCHED AC OUTLETS

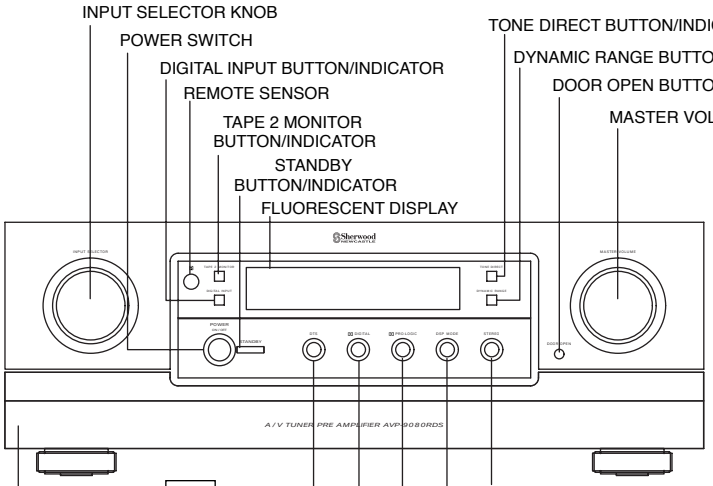
- These outlets are switched on (power on mode) and off (standby mode) according to power control as follows: (Maximum total capacity is 100 W)

  Standby mode - switched AC outlet off
  Power on mode - switched AC outlet on

■ CONNECTING DIGITAL INPUTS



- Components such as CD, LD or DVD capable of digital output of DTS Digital Surround, Dolby Digital, PCM or digital RF should be connected to these inputs.
- For details, refer to the operating instructions of the component connected.
- When making the COAXIAL DIGITAL connection, be sure to use a 75Ω COAXIAL cord, not a conventional AUDIO cord.



PANEL DOOR

DTS BUTTON

DOLBY DIGITAL BUTTON

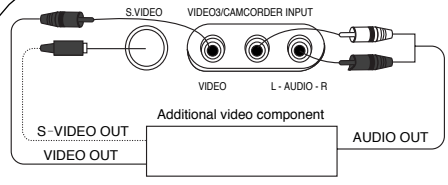
DOLBY PRO LOGIC BUTTON

DSP MODE BUTTON

STEREO (SURROUND OFF) BUTTON

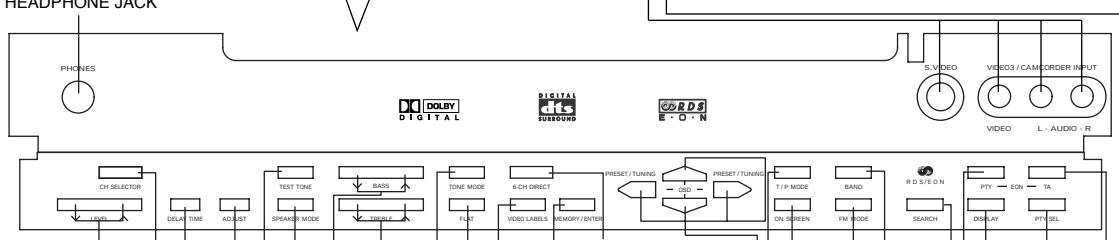
when the panel door is open with the DOOR OPEN button.

■ VIDEO3/CAMCORDER INPUT JACKS



- The VIDEO 3/CAMCORDER INPUT jacks may be also connected to an additional video component such as a camcorder, a video deck or a video game player, etc.
- Use the S-VIDEO jack to make connection to video component with the S-VIDEO OUT jack.
  A signal input into the S-VIDEO jack will be output in both the MONITOR S-VIDEO jack and the MONITOR normal VIDEO jack and a signal input into the normal VIDEO jack will be output in only the MONITOR normal VIDEO jack.

HEADPHONE JACK



6 CH DIRECT BUTTON

MEMORY / ENTER BUTTON

VIDEO LABELS BUTTON

TONE FLAT BUTTON

TONE MODE BUTTON

TREBLE UP / DOWN (^ /v) BUTTONS

BASS UP / DOWN (^ /v) BUTTONS

SPEAKER MODE BUTTON

TEST TONE BUTTON

DELAY ADJUST BUTTON

DELAY TIME BUTTON

CHANNEL SELECTOR BUTTON

CHANNEL LEVEL UP / DOWN (^ /v) BUTTONS

RDS BUTTONS
(AVP-9080RDS ONLY)
Refer to "Additional function for AVP-9080RDS Tuner Only" on page 24.

BAND BUTTON

FM MODE BUTTON

ON SCREEN BUTTON

TUNING / PRESET MODE BUTTON

PRESET / TUNING UP / DOWN (▷/◁),
CURSOR CONTROL(▷,▽,◁,△) BUTTONS

Notes:For additional Universal Remote Programming instructions and product identification codes, please refer to the operating manual inclosed with this Universal Remote Control.

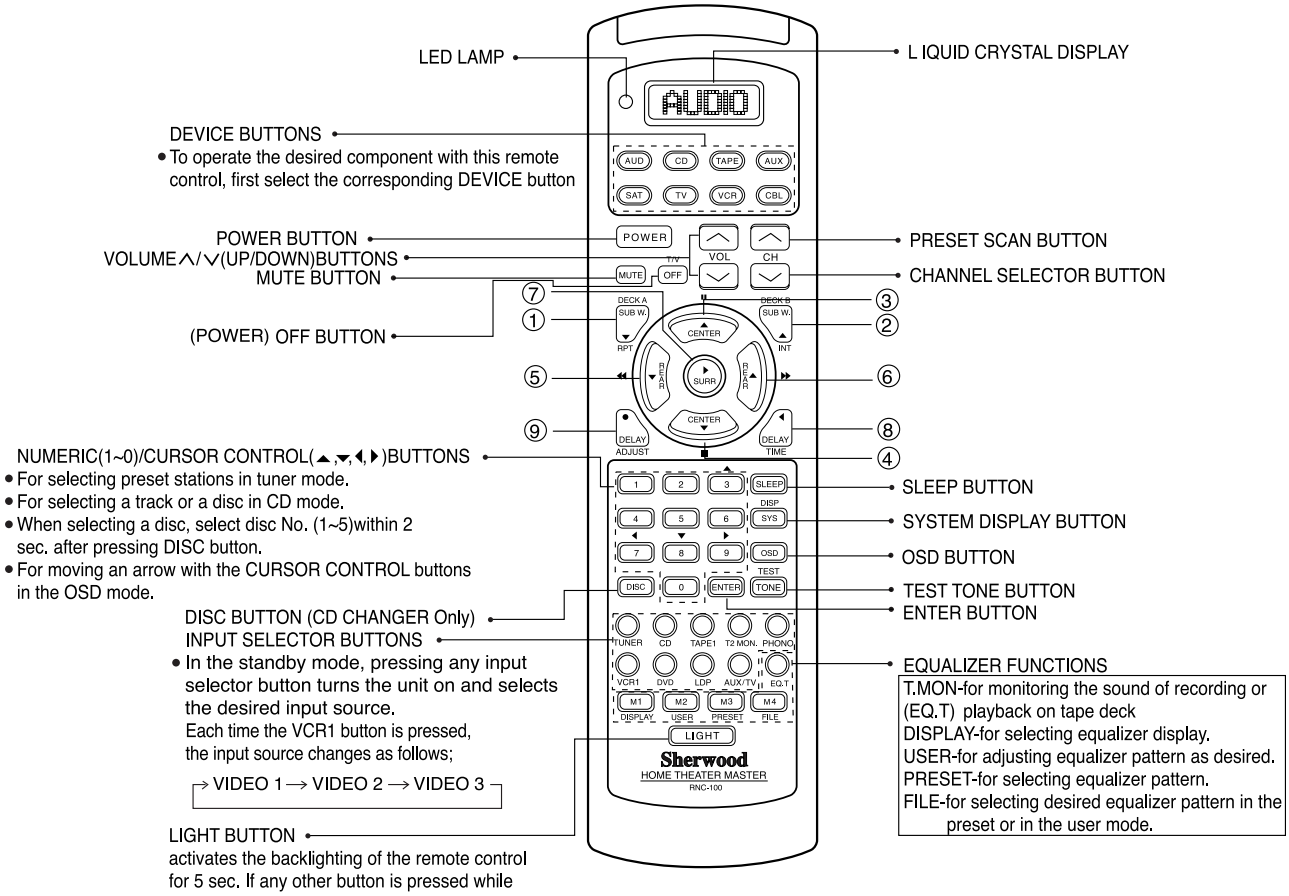
This remote control has 3 operating modes as follows;

- OSD (On Screen Display) mode: Allows you to look at information about basic operation of this unit on your monitor TV and to operate this unit by moving an arrow that appears on the screen of your monitor TV.
- Sherwood mode: Allows you to operate this unit and other Sherwood components like cassette decks, CD players and equalizers, etc. (To operate other Sherwood components, you should make the DIGI LINK connections between them)
- Non-Sherwood mode: Allows you to operate non-Sherwood audio and video components that are remote compatible.

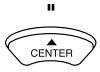
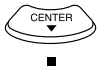
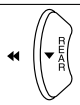
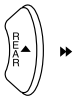
Notes:

- The set-up code for each component must be entered before operation.
- For set-up codes (product identification codes), please refer to “Set-Up Code Tables” in the operating manual of this remote control.
- Operation buttons may have different functions according to each operation mode.
- Be sure to set the remote control to the correct mode before trying to operate any component.

- This section explains the basic functions for Sherwood or OSD mode. For the non-Sherwood mode, refer to the operating manual of this remote control.
- All Sherwood components bearing the DIGI LINK (II or III) logo can be used with this remote control.
- For system remote control operation, first make the DIGI LINK connections between Sherwood components.
- The numbered buttons on the remote control have different functions in different modes. For details, refer to the “FUNCTION TABLE of the NUMBERED BUTTONS” on following page.



■ FUNCTION TABLE of the NUMBERED BUTTONS.

Component control selection buttons / Button symbols	AUD (for pre amp.)	CD	TAPE
① 	—	REPEAT A< • >B	DECK SELECTOR A
② 	—	INTRO SCAN	DECK SELECTOR B
③ 	CHANNEL LEVEL UP	PAUSE	PAUSE
④ 	CHANNEL LEVEL DOWN	STOP	STOP
⑤ 	—	BACKWARD SKIP	REWIND
⑥ 	—	FORWARD SKIP	FAST-FORWARD
⑦ 	SURROUND MODE	PLAY	FORWARD PLAY
⑧ 	DELAY TIME	—	REVERSE PLAY
⑨ 	DELAY ADJUST	—	RECORD

- When using the Sherwood DIGI LINK III components, by pressing PLAY, etc. on CD player or tape deck, CD or TAPE 2 MONITOR is selected automatically without selecting the input source and then PLAY, etc. starts.
  In this case, to listen to TAPE 1, switch off the TAPE 2 MONITOR and select the TAPE 1.

Notes:

- Some functions for CD player, tape deck or equalizer may not be available.
- For details about functions, refer to the operating instructions of each component.

1 Enter the set-up codes of the components respectively, referring to “ENTERING A SET-UP CODE” (12page)

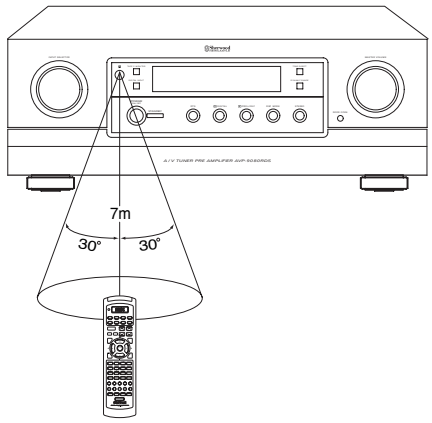
2 Turn on the components you want to operate.

3 Press the DEVICE button on the remote control corresponding to the component you want to operate.

4 Press the button corresponding to the operation you want while aiming the remote control at the REMOTE SENSOR on the component.

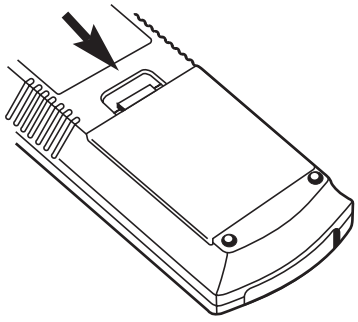
- When operating a Sherwood CD player or tape deck using the system remote control, aim the remote control at the REMOTE SENSOR on this unit.

- Use the remote control within a range of about 7 meters (23 feet) and angles of up to 30 degrees aiming at the remote sensor.

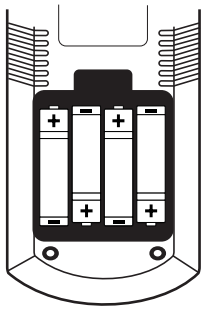


- When “L-BAT” flickers on the LCD, the old batteries should be replaced.
- When changing the batteries, load the new batteries within 10 sec. to maintain existing programming.
  If the batteries are removed for a longer period of time, the remote control might lose its memory and require re-programming.

1 Remove the cover.



2 Load 4 AAA 1.5V batteries matching the polarity.



ENGLISH

ENTERING A SET-UP CODE

- Before operating audio and video components using the remote control supplied with this unit, the set-up code for each component must be entered.
- For system remote control operation, the set-up code for each Sherwood component such as CD player and tape deck is “001”respectively. Enter each set-up code for CD player and tape deck doing steps 3,4 and 5 as follows.
- The code for the AVP-9080R (or AVP-9080RDS) is Audio “002”.

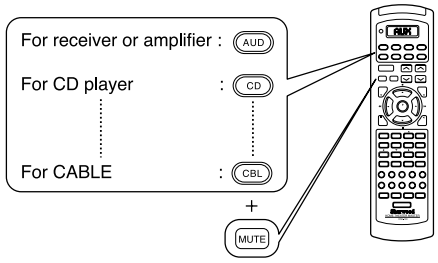
1 Turn on the component you want to control.

- Note : Some components, including this unit, should be turned off and in the stanby mode before entering a set-up code.

2 Find the set-up code for your component referring to “Set-Up Code Tables” in the operating manual of this remote control.

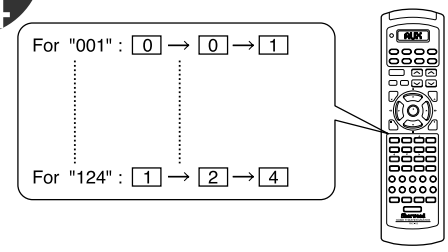
Example) The 3 digit set-up codes for the Sherwood “Audio” are 001,002, ...(Hint:The correct set-up code for this unit is “002”.)

3 Press the corresponding DEVICE and the MUTE buttons simultaneously.



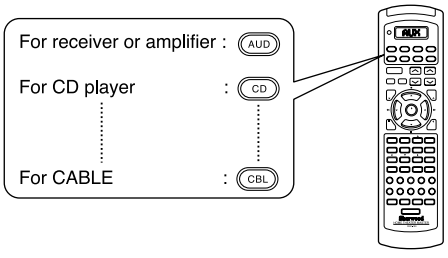
- Then “SET” appears on the LCD of the remote control for 20 seconds.

4 Enter the 3 digit set-up code aiming the remote control at the REMOTE SENSOR on the component.



- Your component will be turned off when the correct set-up code is entered.(Example) In case of this unit, this will be turned on,(refer to the above step1))
- Continue to enter the corresponding codes until your component is turned off.
- If “SET” disappears, start from the step 3 again.

5 Press the corresponding DEVICE button to store the set -up code.



- Then “PASS” will flicker on the LCD.

6 Operate the component using the corresponding function buttons on the remote control such as POWER, OFF, CH ∧ / ∨ and VOL ∧ / ∨ buttons, etc.

- If any of the buttons do not perform as they should, start from step 1 again and enter the next set-up code.

Notes:Some audio and video components have separate buttons for POWER ON/OFF.
In this case, press the corresponding DEVICE(or POWER for this unit only) button to turn the component ON and press the POWER(or OFF for this unit only) button to turn the component OFF.

- If there is no correct set-up code or if the Manufacturer/Brand for your component is not listed in “Set-Up Code Tables” in the operating manual of this remote control, please use the “Auto Search Method” on page 10 in the operating manual of this remote control.
- Although each set-up code is designed to work with many different modes, certain codes may not work with some models. (Also, certain codes may only operate some of the functions available on a given model.)

7 Repeat the above steps 1 to 6 for each of your other components.

Note: Before operating this pre amplifier with the supplied remote control, refer to “Universal Remote Control” on page 9 for details about operation.

ENGLISH

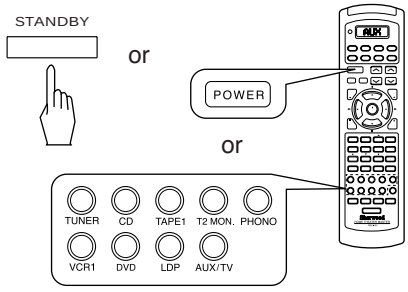
LISTENING TO A PROGRAM

Before operation

■ To enter the standby mode.

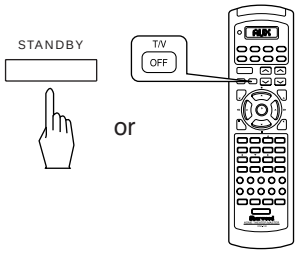
- The STANDBY button lights up in red. This means that the unit is connected to the AC outlet and a small amonut of current is retained to support the memorized contents and operation readiness.
- To switch the power off, push the POWER switch again.
- Then the power is cut off and the STANDBY button goes off.

■ In the standby mode, to turn the power on.



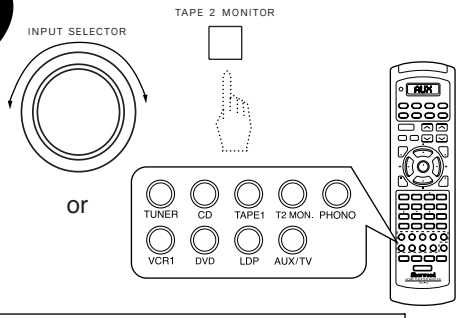
- The STANDBY button lights up in green and the unit is turned on and enters the operating mode.
- In the standby mode, if the INPUT SELECTOR button is pressed on the remote control, the unit is turned on automatically and the desired input is selected.

■ In the operating mode, to enter the standby mode.



- The STANDBY button lights up in red.

1 Select the desired input source.



CD PLAYER
DTS (Opt)

SURROUND mode — Input source — DIGITAL or ANALOG input

- Each time the INPUT SELECTOR knob is rotated, the input source changes as follows:

→ PHONO ↔ TUNER ↔ CD PLAYER ↔ TAPE 1↔ DVD PLAYER ←
(frequency display)
→ AUX/TV ↔ VIDEO3 ↔ VIDEO2 ↔ VIDEO1 ↔ LD PLAYER ←

- Each time the VCR1 button on the remote control is pressed, the input source changes as follows:

→ VIDEO 1 → VIDEO 2 → VIDEO 3 ←

- When the TAPE 2 MONITOR button is set to on and TAPE 2 MONITOR button on the front panel lights up in green, other inputs can not be heard from the speakers. To listen to a input source other than TAPE 2 MONITOR, be sure to set the TAPE 2MONITOR button to off.

TAPE 2 MONITOR function

You can connect either a tape deck or a graphic equalizer to the unit’s TAPE 2 MONITOR jacks. When listening to the component connected to these jacks,set the TAPE 2 MONITOR button to on. If you connect a 3-head tape deck, you can listen to the sound being recorded during recording, instead of the source sound.
For further details, refer to the operating instructions of the component connected.

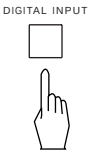
■ When selecting the 6-CH DIRECT inputs as desired.

6-CH DIRECT

- The 6 separate analog signals from 6-CH decoder connected to this unit pass through the tone(bass,treble) and volume circuits only and directly transfer to the LINE OUTS of this unit.(In case that the TAPE 2 MONITOR button is set to on, the TAPE 2 MONITOR button is automatically set to off.)
- Press the 6-CH DIRECT button again to cancel the 6-CH direct function.
- These 6 separate analog signals can be heard only, not recorded.

When CD, DVD, LD or AUX/TV is selected as input source

2 • Select the digital (or the analog) input connected as desired.



• Each time this button is pressed, the corresponding input is selected as follows. When a digital input is selected, the DIGITAL INPUT button lights up in green.

– In the DTS mode.

→ Opt(ical) → Coax(ial) →

– In the Dolby Digital mode:Not available for CD

→ (RF:LD PLAYER only) → Opt(ical) → Coax(ial) →

• To play back the laser disc encoded into the Dolby Digital format in the Dolby Digital mode, you should select the RF input as the desired digital input.

– In the normal stereo or a surround mode other than the DTS and Dolby Digital modes.

→ Opt(ical) → Coax(ial) → Ana(log) →

• To listen to Dolby Digital program source in the 2-CH downmix mode, in the stereo mode, the corresponding digital input (LD player : RF) should be selected. (For details, refer to "Downmixing into 2 front channels" on page 21)

Notes :

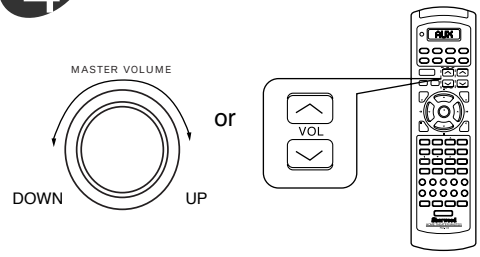
• When the selected optical or coaxial digital input is not connected, the selected "Opt" or "Coax"will flicker, meaning no sound.(Refer to "Select the desired surround mode" on page 17.)

• When the DTS or the Dolby Digital mode is selected, the component connected to the selected digital input can be heard regardless of the selected input source.

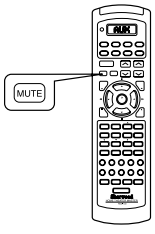
3 Operate the selected component for play back.

• When playing back the program sources with surround sound, refer to "ENJOYING SURROUND SOUND" on page17.

4 Adjust the (overall) volume.



5 To mute the sound.



• "MUTE" will flicker.

• To resume the previous sound level, press it again.

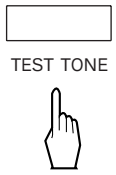
6 To listen with the headphones.

• When the headphones are plugged, the sound from the speakers is cut off.

• When listening to DTS or Dolby Digital program source in the DTS or the Dolby Digital mode, if the headphones are plugged, it enters the 2-CH downmix mode automatically.
(For details, refer to "Downmixing into 2 front channels" on page 21)

Adjusting the tone (bass and treble)

7 Enter the tone mode.

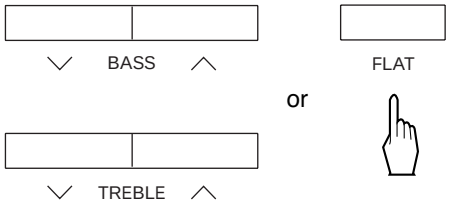


- Each time this button is pressed, the corresponding channel is selected and shown for 3 seconds as follows;

  → "Front Tone Mode" → "Center Tone Mode"
  "Fr/Cen Tone Mode" ←

- The Fr(ont)/Cen(ter) channel mode can be selected when the bass and the treble of the front and the center channels are all adjusted to the flat level(0 dB).

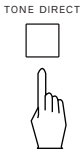
8 At the desired channel mode, adjust the tone as desired



- At the Fr(ont)/Cen(ter) channel mode, the bass or the treble of the front and center channels can be adjusted together.
- If the TONE FLAT button is pressed, the bass and the treble of the selected channel are all adjusted to the flat level (0 dB).
- If the tone display disappears, start from the step 7 again.

Note : Extreme settings at high volume may damage your speakers.

9 To listen to a program source without the tone effect.



- The TONE DIRECT button lights up in green and the sound that bypasses the tone circuitry will be heard.
- To cancel the tone direct function, press this button again.

ENGLISH

SURROUND SOUND

- This unit incorporates a sophisticated Digital Signal Processor that allows you to create optimum sound quality and sound atmosphere in your personal Home Theater.

Surround modes

This unit has 8 different surround modes to allow you to enjoy surround sound with various program sources: DTS , DOLBY DIGITAL, DOLBY PRO LOGIC, DOLBY 3 STEREO, THEATER, HALL,STADIUM,CHURCH.

DTS (Digital Theater System) : Allows you to enjoy 5.1 (or 6) discrete channels of high quality digital audio from DTS program sources bearing the " DIGITAL dts SURROUND ", " HDS " or "HIGH DEFINITION SURROUND" trade mark such as laser discs, DVD and compact discs, ets. DTS Digital Surround delivers up to 6 channels of transparent audio (which means identical to the original masters) and results in exceptional clarity throughout a true 360° soundfield.
"DTS" and DTS Digital Surround are trademarks of Digital Theater Systems, Inc.

Note: The DTS program sources should be played back in the DTS mode. If not, no sound or the sound like continuous noise will be heard.

DOLBY DIGITAL : Allows you to enjoy up to 5.1 channels of digital surround sound from Dolby Digital program sources bearing the " DOLBY DIGITAL " trademark such as laser discs.
Dolby Digital provides better sound quality, improved dynamic range and great sense of direction, compared with the conventional Dolby surround. Now, you are able to enjoy real Home Theater sound in your home.

DOLBY PRO LOGIC : This unit incorporates the Dolby Pro Logic Surround Decoder which has the same functions for playback as movie theaters and gives a theater - like experience in your home, naturally reproducing the audio sound field. Use with Dolby Pro Logic program sources bearing the " DOLBY SURROUND " trademark such as video cassette tapes or laser discs.

DOLBY 3 STEREO : Combining the rear speaker signal with that of the front speakers allows you to enjoy a regenerated sound field which has comparatively more presence and a more expansive feeling from the 3 front channels (front L,front R and center speakers) than that of ordinary stereo regeneration. Use with Dolby program sources bearing the " DOLBY SURROUND " trademark.

THEATER : This mode provides the effect of being in a movie theater when watching a movie source that has a stereo sound track.

HALL : This mode provides the ambience of a concert hall for classical music sources such as orchestral, chamber music or an instrumental solo.

STADIUM : This mode provides the expansive sound field. For music sources like a rock concert, you will feel as if you were actually at the live concert. For sports programs such as a baseball game, you can enjoy a powerful sound, thus obtaining the true stadium effect.

CHURCH: This mode provides the ambience of a church for baroque, string orchestral and choral group music.

Delay time

When the center speaker or the rear speakers is (are) closer to the listener than the front speakers, the sound from the center speaker or the rear speakers can arrive at the listener's ear earlier than the sound from the front speakers.
In this case, the imaging is not as sharp and stable as it could be.
For audible improvement, the sound from center speaker can be delayed with the center delay time setting so that the sound from the front and the center speakers will be heard at the same time and the sound from the rear speakers can be also delayed with the rear delay time setting so that the sound from the front and the rear speakers will be heard at the same time.
The optimum delay time will be different according to the room size and the acoustic properties. It is recommended that you try different times to obtain the best effect.

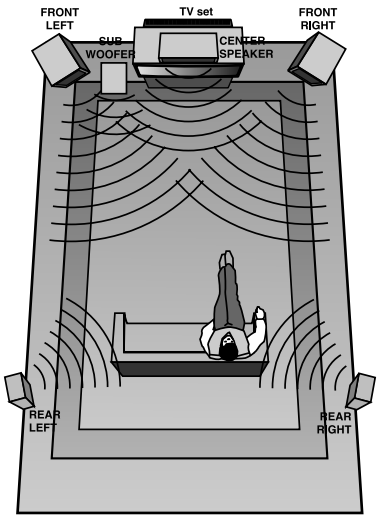
• It is adjustable in the Dolby Digital and the Dolby Pro Logic modes only.(For details, refer to "In Dolby Digital, Dolby Pro Logic mode, adjusting delay times of the speakers" on page 20.)

Speaker placement

To obtain the best surround sound effect in your home, place the speakers as follows;

- Front speakers : Place each front speaker about 1m (40″) from the TV set.
- Center speaker : Place the center speaker either above or below the TV set to assure good visualization of center channel program.
- Rear speakers : Place the rear speakers approximately 1m (40″) above the ear level of a seated listener directly to the left or right of the main listening position or at the same height but slightly behind the main position.
- Subwoofer : Place the powered subwoofer by a wall or corner of the room for best sound.
- The ideal surround system consists of all the speakers listed above. The ideal DTS Digital Surround system uses full range speakers for all positions including both front speakers, both rear speakers and the center speaker.
- However, if you don't have a center speaker, a subwoofer or rear speakers, select the best possible surround mode with the available speakers.

Note: To avoid interference with the TV picture, use only magnetically shielded center and front speakers.

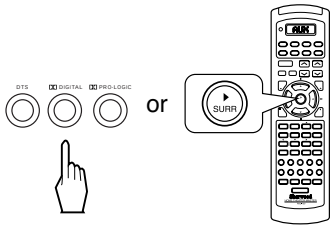


ENJOYING SURROUND SOUND

- Surround sound effect will not work properly if the signal passes through a graphic equalizer. Please refer to your equalizer operating instructions for guidance on switching off (or defeating) the equalizer.

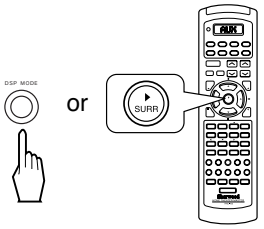
1 Select the desired surround mode.

■When selecting the DTS mode, the Dolby Digital mode or the Dolby Pro Logic mode.



- The DTS mode is available only for DVD,LD, AUX/TV and CD as input source.
- The Dolby Digital mode is available only for DVD, LD and AUX/TV as input source.
- To enjoy the DTS mode or the Dolby Digital mode, be sure that the program source and the corresponding digital input is selected. If not, no sound will be heard.
- * When LDP is selected, only the RF digital input will work in the Dolby Digital mode. (Refer to "When CD, DVD, LD or AUX/TV is selected as input source" on page 14.)
- When some Dolby Digital program sources encoded into 2 channel format is played in the Dolby Digital mode, "DD + Pro Logic" is displayed.

■When selecting a surround mode among the Dolby 3 Stereo, Theater, Hall, Stadium and Church modes.

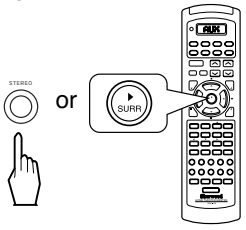


- Each time the DSP mode button or the SURROUND MODE button is pressed, the surround mode changes as follows;

→(DTS →Dolby Digital →Dolby Pro Logic) →Dolby 3 Stereo
(Stereo) ←Church ←Stadium ← Hall ←Theater ←

"( )":Remote control only.

■When canceling the surround mode for normal stereo operation.



Adjusting the speaker settings

- Adjusting the settings of front, center, rear speakers and subwoofer connected.
- If the speaker setting is adjusted to “Small”, the low range bass sound of the channel(s) is redirected to the subwoofer or the front channels and if the speaker setting is adjusted to “None”, the sound of the channel(s) is redirected to other channels.

2 Press the SPEAKER MODE button for more than 2 seconds to enter the front speaker mode.

- The front speaker mode is displayed.

3 Select the desired front speaker mode.

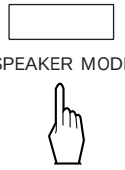
- Each time this button is pressed,the front speaker mode changes and flickers for 5 seconds as follow;

Large ↓ Small

: When using the relatively large front speakers (full range speakers).

: When using the relatively small front speakers (which cannot reproduce the low range bass sounds deeply).

4 Memorize the desired front speaker mode while it flickers.



- The desired front speaker mode is memorized and then it enters the center speaker mode.
- If the front speaker display disappears, start from the above step 2 again.
- In Theater, Hall, Stadium, Church mode, it will enter the rear speaker mode directly, this means the center speaker mode can not be selected.
- In normal stereo mode, it will enter the subwoofer mode directly, this means the center and the rear speaker modes can not be selected.

5 Select the desired center speaker mode.

- Each time this button is pressed, the center speaker mode changes and flickers for 5 seconds as follows;

Large ↓ Small ↓ None

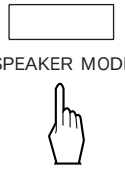
:When using a relatively large center speaker (full range speaker).

:When using a relatively small center speaker (which cannot reproduce the low range bass sounds deeply).

:When not using a center speaker.

- Only in the Dolby Digital or the Dolby Pro Logic mode, the “None” mode can be selected.

6 Memorize the desired center speaker mode while it flickers.



- The desired center speaker mode is memorized and then it enters the rear speaker mode.
- In Dolby 3 Stereo mode, it will enter the subwoofer mode directly, this means the rear speaker mode can not be selected.
- If the center speaker display disappears, start from the above step 2 again.

7 Select the desired rear speaker mode.

- Each time this button is pressed, the rear speaker mode changes and flickers for 5 seconds as follows;

Large ↓ Small ↓ None

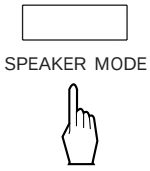
:When using the relatively large rear speakers (full range speakers).

:When using the relatively small rear speakers (which cannot reproduce the low range bass sounds deeply).

:When not using the rear speakers.

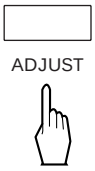
- Only in the Dolby Digital or the Dolby Pro Logic mode, the “None” mode can be selected.

8 Memorize the desired rear speaker mode while it flickers.



- The desired rear speaker mode is memorized and then it enters the subwoofer mode.
- If the rear speaker display disappears, start from the above step 2 again.

9 Select the desired subwoofer mode.

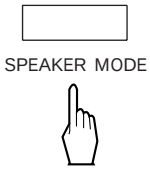


- Each time this button is pressed, the subwoofer mode changes and flickers for 5 seconds as follows;

Yes : When using a subwoofer
No : When not using a subwoofer.

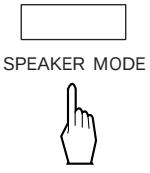
- In case that the front speaker mode is set to “Small”, the subwoofer mode is automatically set to “Yes”.

Memorize the desired subwoofer mode while it flickers.



- If the subwoofer display disappears, start from the above step 2 again.

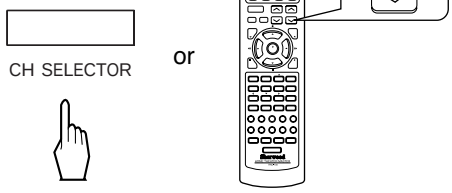
Checking the speaker setting



- Each time this button is pressed briefly, the corresponding speaker settings are displayed in turn.

Adjusting each channel level

Select the desired channel.

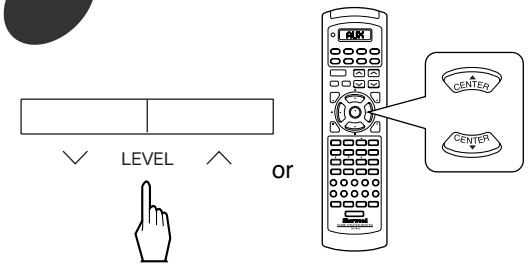


- Each time this button is pressed, the corresponding channel is selected and shown for 3 seconds as follows;

→ Front L→ Center→Front R→Rear R→Rear L→Sub Wfr

- According to the surround mode or the speaker setting(None or No), center, rear or subwoofer channel will not be selected.

Adjust the level of the selected channel as desired.



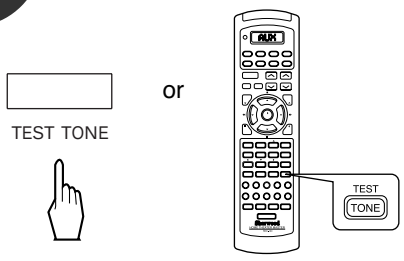
- If the channel display disappears, start from the above step 11 again.

Repeat the above steps 11 and 12 to adjust other channel levels.

In DTS, Dolby Digital, Dolby Pro Logic or Dolby 3 Stereo mode

- In these modes, the volume level of each channel can be adjusted easily with the test tone function.

Enter the test tone mode.



- The test tone will be heard from the speaker of each channel for 2 seconds as follows;

–In the DTS and the Dolby Digital modes

→ Front L → Center → Front R → Rear R → Rear L → Sub Wfr →

–In the Dolby Pro Logic mode

→ Front L → Center → Front R → Rear R → Rear L →

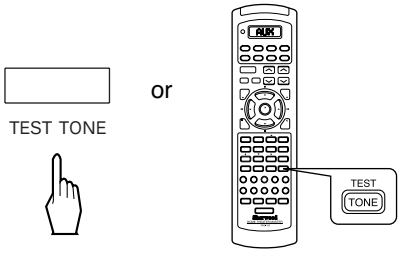
–In the Dolby 3 Stereo mode

→ Front L → Center → Front R →

- When the speaker setting is set to the “None” or “No” mode, the test tone of the corresponding channel is not available.

Do the steps 11 to 13 in”Adjusting each channel level” until the sound level of each speaker is heard to be equally loud.

Cancel the test tone function.



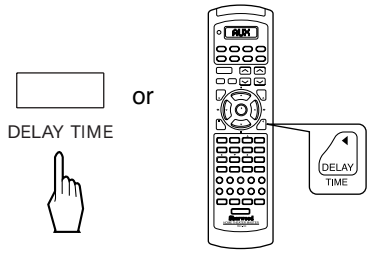
In Dolby Digital, Dolby Pro Logic mode, adjusting delay times of the speakers

- When the distances from the prime listening position to front left, center, front right and rear (left and right) speakers are same, the basic settings are as follows according to either the Dolby Digital or the Dolby Pro Logic mode;

- In the Dolby Digital mode
  Center delay time : 0 ms, Rear delay time : 0 ms
- In the Dolby Pro Logic mode.
  Rear delay time : 15 ms

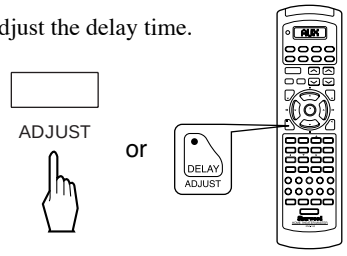
- If the center or the rear speaker(s) is (are)not at the same distance from the prime listening position as the front speakers, increase or decrease the center delay time by 1 ms for every about 30 Cm (1 foot) it is closer or farther away and increase or decrease the rear delay time by 5 ms for every about 1~1.5 m (3~5 feet) it is closer or farther away.

Check the delay time to be adjusted.



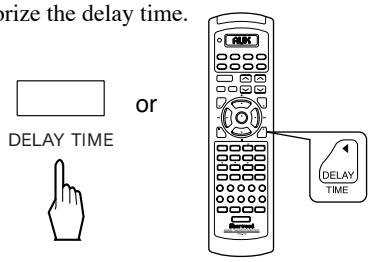
- The delay time will be displayed for 5 seconds.
- Only in the Dolby Digital mode, the center delay time can be adjusted and the corresponding delay time is flikering.

Adjust the delay time.



- Each time this button is pressed, the delay time changes in regular intervals.
- If the delay time disappears, start from the step 17 again.

Memorize the delay time.



- The rear delay time can be memorized without pressing the DELAY TIME button.

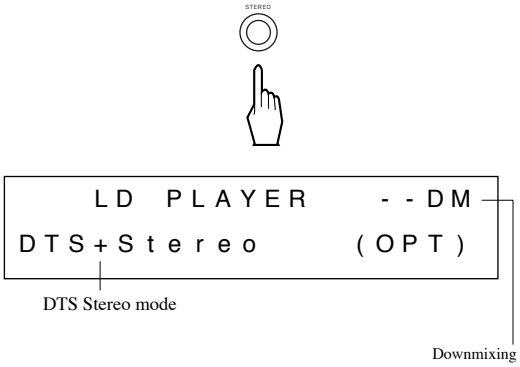
In Dolby Digital mode, repeat the above steps 18 and 19 to adjust the rear delay time.

Downmixing into 2 front channels

- Allows the multi-channel DTS or Dolby Digital signal to be reproduced through only two speakers or through headphones.
- If the corresponding digital input for the DTS or the Dolby Digital program sources is selected correctly, this function can be operated only in the follwing cases.

■ When in the DTS mode

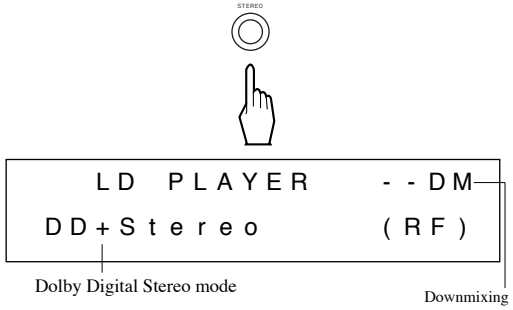
- Enter the “DTS + Stereo” mode.



- When the DTS program sources are played back, the 5 discrete channels(Front L, Center, Front R, Rear L and Rear R) will be mixed down to 2 front channels and the sound will be heard from only the 2 front speakers.
- To cancel the “DTS + Stereo” mode, select the desired surround mode or the normal stereo mode.
- If the headphones are plugged in the DTS mode, it will be automatically in the “DTS + Stereo” mode(but “DTS” is displayed still) and if the headphones are unplugged in the “DTS + Stereo” mode, it will return to the DTS mode.

■ When playing back the Dolby Digital program sources in the Dolby Digital mode.

- Enter the “DD + Stereo” mode.

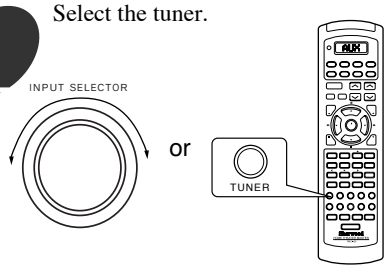


- The 5 discrete channels will be mixed down to 2 front channels and the sound will be heard from only the two front speakers.
- To cancel the “DD + Stereo” mode, select the desired surround mode.
- When playing back the Dolby Digital program sources in the normal stereo mode, the “DD + Stereo” mode will engage automatically.
- When the center and rear speakers are specified as “None” during set-up of the Dolby Digital mode, Dolby Digital material will be heard in the “DD + Stereo” mode.
- When playback is stopped or interrupted, etc. the “DD + Stereo” mode is not canceled even though “DD + ” and“ - - Dm”,etc. is no longer visible in the display.
- If the headphones are plugged while playing back the Dolby Digital program sources in the Dolby Digital mode, it will be automatically in the “DD + Stereo” mode(but “Dolby Digital” is displayed still) and if the headphones are unplugged in the “DD + Stereo” mode, it will return to the Dolby Digital mode.

LISTENING TO RADIO

Auto tuning

1 Select the tuner.



2 Select the tuning mode.

T / P MODE

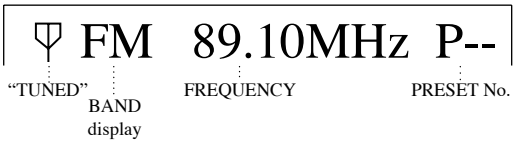
- Each time this button is pressed. the mode changes as follows;

→ Tuning mode : "Tuning Mode" lights up

Preset tuning mode : "Preset Mode" lights up ←

3 Select the desired band.

BAND



- Each time this button is pressed, the band is changed FM or AM.
- When pressing the BAND button without selecting the Tune, the tuner will be selected automatically.

4 Press the PRESET/TUNING UP(⊐)or DOWN(⊏) button for more than 0.5 second.

PRESET / TUNING PRESET / TUNING

- The tuner will now search until a station of sufficient strength has been found. The display shows the tuned frequency and the TUNED display " ♈ "
- If the station found is not the desired one, simply repeat this operation.
- Weak stations are skipped during auto tuning.

Manual tuning

- Manual tuning is useful when you already know the frequency of the desired transmitter.
- Perform the steps 1 ~3 in "Auto tuning" procedure and press the PRESET/TUNING UP (⊐) or DOWN (⊏)button repeatedly until the right frequency has been reached.

PRESET / TUNING PRESET / TUNING

Presetting radio stations

- You can store up to 30 preferred stations in the memory.

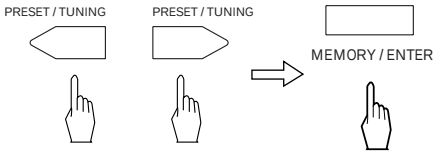
1 Tune in the desired station with auto or manual tuning.

2 Press the MEMORY/ENTER button.

MEMORY / ENTER

- "01" in the preset No. display is flickering for 5 seconds.

3 Select the desired preset number (1~30) and press the MEMORY/ENTER button.



- When using the NUMERIC buttons on the remote control.

Examples)

- For "3" : 3
- For "15" : within 2 seconds, 1 → 5
- The station has now been stored in the memory.
- When using the NUMERIC buttons, the station is stored automatically without the MEMORY/ENTER button.
- A stored frequency is erased from the memory by storing another frequency in its place.
- If "01" goes off, start again from the above step 2.

4 Repeat the above steps 1 to 3 to memorize other stations.

■MEMORY BACKUP FUNCTION

The following items set before the unit is turned off are memorized.

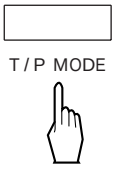
- INPUT SELECTOR settings
- VIDEO 1 REC SELECTOR settings
- Surround mode settings
- Preset stations
- Video labels, etc.

Note : If the electricity fails or the AC input cord is disconnected for about 2 weeks, the memorized contents are all cleared. So you should memorize them again.

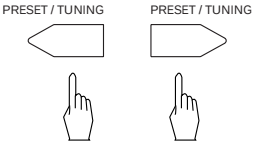
Tuning to preset stations

1

- After selecting the tuner as input source, select the preset tuning mode. ("Preset Mode" lights up.)



2 Select the desired preset number.



- When using the NUMERIC buttons on the remote control.

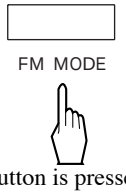
Examples)

- For "3" : 3
- For "15" : within 2 seconds, 1 → 5

- When selecting the desired preset number with the NUMERIC button, the desired preset station will be tuned to automatically with out selecting the preset tuning mode.

Listening to FM stereo broadcasts

- While listening to FM broadcasts.

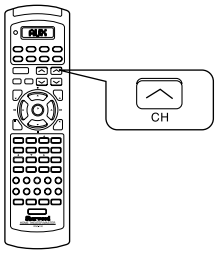


- Each time this button is pressed, the FM mode changes as follows;

→ Stereo mode : "Stereo Mode" lights up
Mono mode : "Mono Mode" lights up

- When FM stereo broadcasts are poor because of weak broadcast signals, select the FM mono mode to reduce the noise, then FM broadcasts are reproduced in monaural sound

Scanning preset stations in sequence



- The unit will start scanning the stations in the preset sequence and each station is received for 5 seconds.
- At the desired station, press this button again to stop scanning.

Additional Function for AVP-9080 RDS Tuner Only

ENGLISH

LISTENING TO RDS BROADCASTS

RDS(Radio Data System) is method for sending information signals together with the transmitter signals. Your tuner is capable of translating these signals and putting the information on the display. These codes contain the following informations. Program Service name(PS), A list of Program Types(PTY), Traffic Announcement(TA), Clock Time(CT), RAdio Text(RT).

RDS search

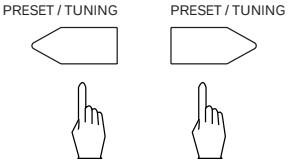
- Use this function to automatically search and receive the stations offering RDS services

1 In the FM mode, select the RDS search mode.

- Each time button is pressed, the search mode changes as follows;

→RDS Search → TP Search → PTY Search →OFF

2 While displaying "RDS Search"



- The tuner automatically searches stations offering RDS services and the station name is displayed.
- If the station found is not the desired one, press the PRESET/TUNING UP(⊐ ⊏) or DOWN(⊂) button again while the "RDS Search" is flickering.
- If no other RDS station is found, "NO RDS" is displayed.
- When "RDS Search" is not displayed, start again from the above step 1.

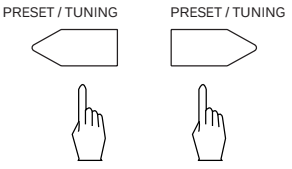
TP search

- Use this function to automatically search and receive the stations broadcasting the traffic program.

1 In the FM mode, select the the Tp search mode.

- "TP Search" is displayed.

2 While displaying "TP Search"



- The tuner automatically searches stations broadcasting the traffic program.
- "NO TRAFFIC" is displayed if the signal is too weak or there are no stations broadcasting the traffic program.
- When "TP Search" is not displayed, start again from the above step 1.

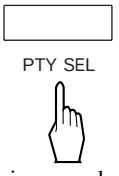
PTY search

- Use this function to automatically search and receive the stations broadcasting the desired program type.

1 In the FM mode, select the PTY search mode.

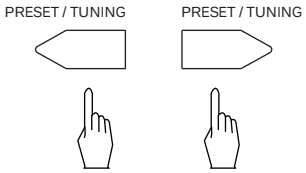
- "PTY Search" is displayed.

2 While displaying "PTY Search", select the desired program type.



- Each time this button is pressed, one of 17 dirrerent types of programs is selected. (NEWS, AFFAIRS, INFORMATION, SPORT, EDUCATION, DRAMA, CULTURE, SCIENCE, VARIED, POP MUSIC, ROCK MUSIC, M.O.R. MUSIC, LIGHT MUSIC, SERIOUS MUSIC, OTHER MUSIC, ALARM, UNDEFINED)
- When "PTY Search" is not displayed, start again from the above step 1.

3

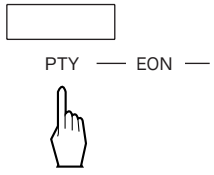


- The tuner automatically searches a station offering PTY services.
- In no station is found, “NO PROGRAM” is displayed.

EON PTY (EON:Enhanced Other Networks information)

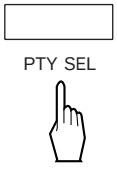
- Use this function to automatically search and receive the desired program type while listening to a RDS station.

1 In the RDS mode.



- Program type is displayed and “PTY” is flickering

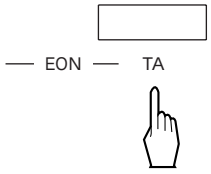
2 Whlie “PTY” is flickering, select the desired program type.



- If one of the preset stations is broadcasting the selected program type, it will be tuned in while listening to a RDS station.
- If the station stops broadcasting the selected program type, the tuner will find other station repeatedly.
- If no station is found, the previous RDS station will be tuned in.
- When flickering “PTY” stops, start again from the above step 1.
- Press the EON PTY button to cancel the EON PTY mode.

EON TA

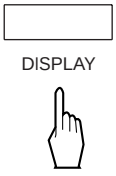
- Use this function to automatically search and receive the traffic announcement while listening to traffic program.
- In the TP mode.



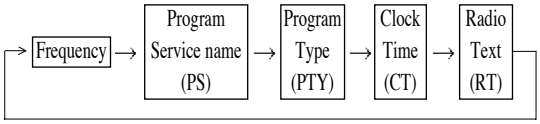
- Traffic program is displayed and “TA” lights up.
- If the preset station broadcasting traffic announcement is found, it will be tuned in while listening to traffic program.
- If the station stops broadcasting traffic announcement, the tuner will find other stations repeatedly.
- If no station is found, the previous traffic program station will be tuned in.
- Press the EON TA button to cancel the EON TA mode.

DISPLAY

- In the FM mode.



- Each time this button is pressed, the display mode changes as follows;



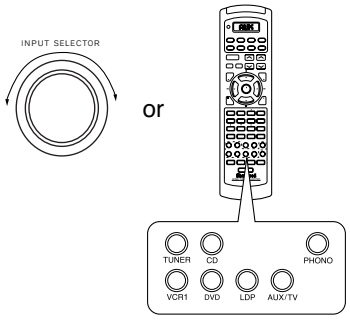
- If the signals are too weak or no RDS service is available, “NO NAME DATA”, “NO PTY DATA”, “NO TIME DATA” or “NO TEXT DATA”will be displayed.

AUDIO RECORDING

• The digital signals from the optical, coaxial or RF digital input and the analog signals from the 6-CH inputs can be heard but cannot be recorded.

Recording with TAPE 1

1 Select the desired input as recording source except for TAPE1 and TAPE 2 MONITOR.



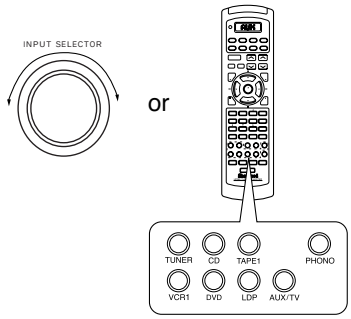
▪ Be sure that the TAPE 2 MONITOR button is set to off.

2 Start recording on the tape deck connected to TAPE 1.

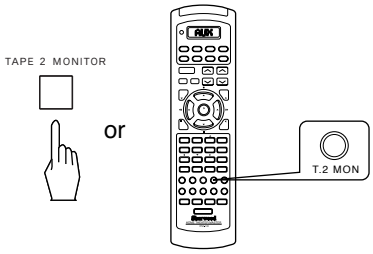
3 Start play on the desired input.

Recording with TAPE 2 MONITOR

1 Select the desired input as recording source except for TAPE 2 MONITOR.



2 Set the TAPE 2 MONITOR button to on.



▪ Then the TAPE 2 MONITOR button on the front panel will lights up in green.

3 Start recording on the tape deck connected to TAPE 2 MONITOR.

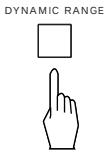
4 Start play on the desired input.

▪ When the TAPE 1 is selected as recording source, dubbing will start from TAPE 1 to TAPE 2 MONITOR.
▪ It is not possible to dub from TAPE 2 MONITOR to TAPE 1.
▪ For tape 2 monitor function, refer to "TAPE 2 MONITOR function" on page 13.

OTHER FUNCTIONS

Compressing the dynamic range (Dolby Digital mode only)

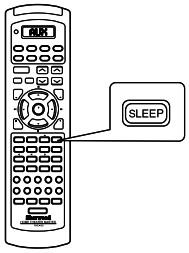
- This function compresses the dynamic range of previously specified parts of the Dolby Digital sound track(with extremely high volume) to minimize the difference in volume between the specified and non-specified parts.
  This makes it easy to hear all of the sound track when watching movies at night at low levels.



- Then the DYNAMIC RANCE button lights up in green
- Press again to cancel.
- In some Dolby Digital softwares, this function may not be available.

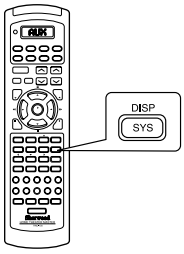
Operating the sleep timer

- The sleep timer allows the system to continue to operate for a specified period of time before automatically shutting off.
- To set this unit to automatically turn off after the specified period of time.



- Each time this button is pressed, the sleep time changes as follows ; → 10 → 20 → 30 → 60 → 90 → OFF
  Unit : Minutes
- When the sleep time is selected, all display panels of Sherwood components connected by the DIGILINK III are dimly lit.

Checking the brightness of the fluorescent displays

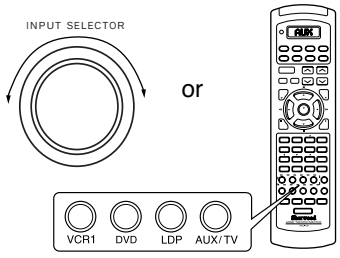


- Each time this button is pressed, the brightness of all fluorescent displays of Sherwood components connected by the DIGI LINK III changes together as follows;
  → ON → dim → OFF
- In the display OFF mode, pressing any button will restore the display ON mode.

Entering video labels

- This function can be operated only on video input sources such as DVD, LD, VIDEO 1~3 and AUX/TV.

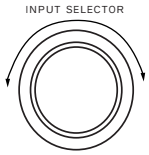
1 Select the desired video input source to enter its label.



2 Press the VIDEO LABELS button for more than 2 seconds.

Label (_ _ _ _ _ _ _ _ _)

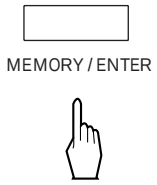
3 Select the first character of the video label while the digit is flickering.



- Each time the INPUT SELECTOR knob is rotated, the characters change as follows ;

26 Capital Letters : A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
10 Arabic Numerals : 1 2 3 4 5 6 7 8 9 0
10 Special Marks : ′ 〈 〉 ＊ ＋ ， － ／ ＼ blank

4 Memorize it within 7 seconds.

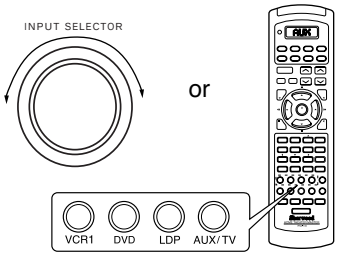


- If the MEMORY/ENTER button is pressed without selecting the desired character, the digit will be blank.
- If 7 seconds elapses, start from the step 2 again.

5 Repeat the above steps 3 and 4 to enter and memorize the desired characters on the rest digits.
Note: On the all 10 digits, the desired characters must be entered and memorized.

Rectifying or clearing a video label

1 Select the desired video input source to be rectified or cleared.



2 Repeat the steps 2~5 in “Entering video labels” procedure.

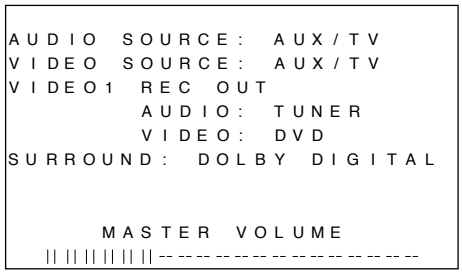
- To clear a video label, make a blank on each digit, then the video label is cleared and its factory video input source will be displayed.

This unit incorporates an OSD (On screen display) function to provide information about basic operation of this unit and to simplify the set-up procedures.
The OSD function uses a monitor TV connected to this unit as a display and has two kinds of display modes such as current status display and menu screen.
Notes:
- When the component video connections are made between the monitor TV and this unit, the OSD function is not available.
- Any on screen display shown on the monitor TV will not be recorded on VIDEO 1.
- Recording with VIDEO 1 or VIDEO 2 can only be performed using the menu screen mode. (Refer to "RECORDING WITH VIDEO 1 or VIDEO 2 USING MENU SCREEN"on 33page)

CURRENT STATUS DISPLAY

This mode shows the basic set-ups and the status during the operation of this unit. The following items will be shown corresponding to each operation mode.
- The on screen display will automatically disappear in 3 seconds.

■ When this unit is turned on or the OSD button on the remote control is pressed.



Basic set-up display.

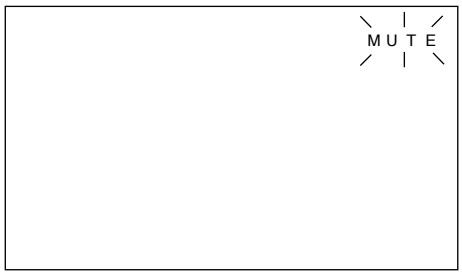
■ When selecting the desired input source.

Input source display

■ When the(overall) volume is adjusted.

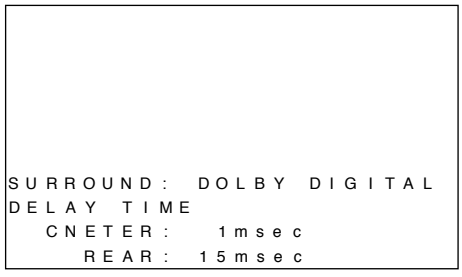
Volume display

■ When the Mute button on the remote control is pressed.



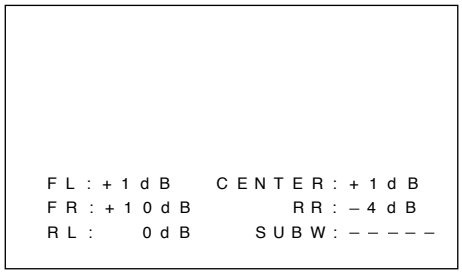
Mute display
- "MUTE" will flicker until the mute effect is canceled.

■ When selecting the desired surround mode or adjusting the delay time.



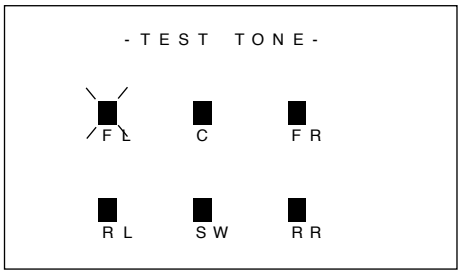
Surround mode and delay time display.

■ When adjusting each channel level.



Channel level display

■ When the TEST TONE button is pressed.



Test tone display

■ When the SLEEP button on the remote control is pressed.

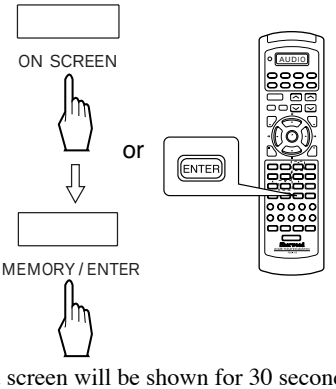
Sleep display

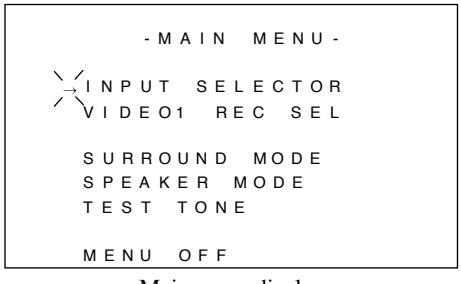
- The test tone display will be shown until the test tone function is canceled.

MENU SCREEN

• This mode is used to set the input selector, the video1 rec selector, the surround mode, the speaker mode and the test tone. The menu screen operation is performed by moving an arrow with the CURSOR control (▲,▼,◀,▶) buttons.

1 Turn the menu screen on

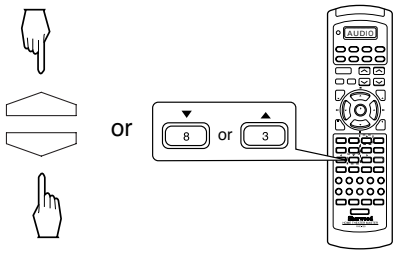




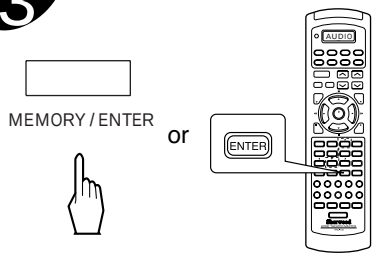
Main menu display

- The menu screen will be shown for 30 seconds.

2 Select the desired menu using the CURSOR UP(▲)or DOWN (▼) button.

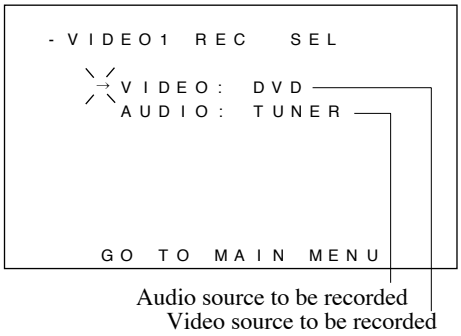


3 Confirm your selection.



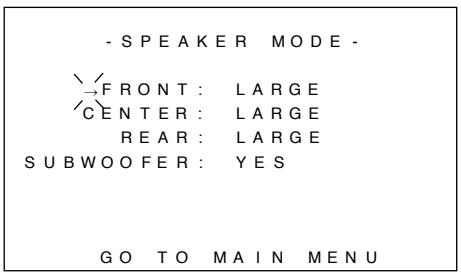
- Then the items of the selected menu will be shown.

■ When selecting the VIDEO 1 REC SELECTOR menu.

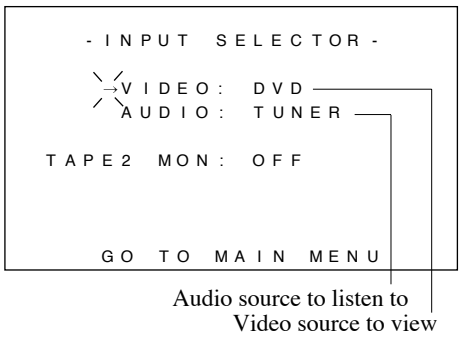


- On the VIDEO 1 REC SELECTOR menu screen, if the video source selected as recording source is different from the audio source, the audio signals and the video signals can be dubbed onto the tape in VIDEO 1 separately.(For details, refer to "RECOR - DING WITH VIDEO 1 OR VIDEO 2 USING MENU SCREEN" on page 33).
- When "SOURCE" is selected as the video or the audio recording source, the video or the audio source selected on the INPUT SELECTOR menu screen can be recorded.

■ When selecting the SPEAKER MODE menu.

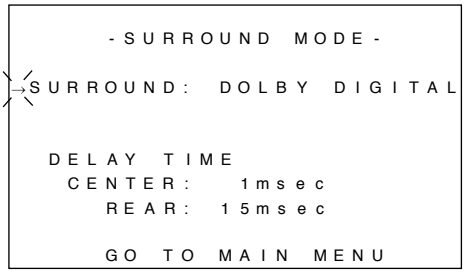


■ When the selecting the INPUT SELECTOR menu.



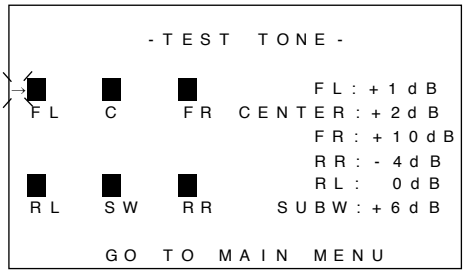
- On the INPUT SELECTOR menu screen, if the video source selected as program source is different from the audio source, you can hear the sound of the audio source and view the pictures of the selected video source independently.
- The selected audio source can be recorded with TAPE 1 or TAPE 2 MONITOR, too.(For details, refer to "AUDIO RECORDING" on 26 page)
- The video and the audio sources selected on the INPUT SELECTOR menu screen can be recorded onto VIDEO 2 only(For details, refer to "RECORD - ING WITH VIDEO 1 OR VIDEO 2 USING MENU SCREEN on page 33)

■ When selecting the SURROUND MODE menu.



Basic set-up display.

■ When selecting the TEST TONE menu.

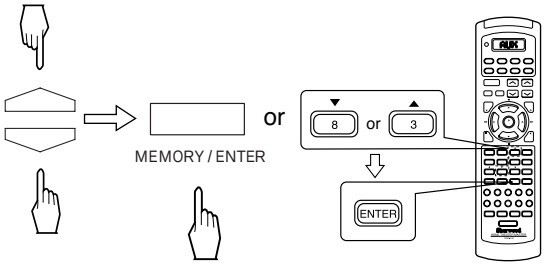


4 Select the desired item using the CURSOR UP(▲)or DOWN (▼) button and change the conditions of the items using the CURSOR LEFT (◄)or RIGHT (►) button.

Notes:

- In the SURROUND MODE, when a delay time shows "▭" indication, it can not be adjusted.
- In the TEST TONE mode, you can hear the test tone from the speaker of each channel using the CURSOR UP(▲)or DOWN (▼) button as well as the CURSOR LEFT (◄)or RIGHT (►) button and adjust each channel level doing the steps 11 to 13 in "Adjusting each channel level"(page 19)
- If the test tone from a speaker can not be heard, check the surround mode or the speaker setting.
- If the menu screen disappears, start from the step 1 again.

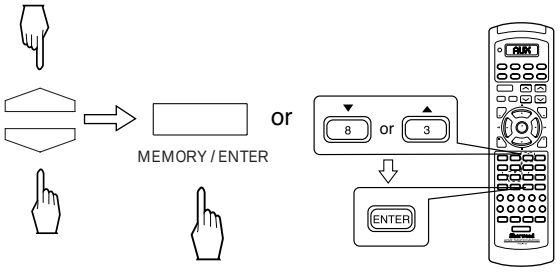
5 When all the desired conditions have been made, select the " GO TO MAIN MENU" using the CURSOR UP(▲)or DOWN (▼) button and confirm your selection using the (MEMORY/)ENTER button.



- Then the MAIN MENU will be displayed.

6 Repeat the above steps 2~5 to change the conditions of the items in another menu.

7 When all the conditions in the desired menu have been made, select the "MENU OFF" using the CURSOR UP(▲) or DOWN (▼)button and confirm your selection using the (MEMORY/)ENTER button.



- Then the menu screen will be turned off.

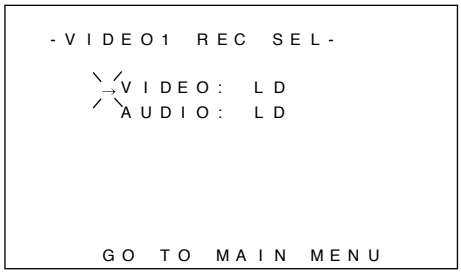
RECORDING WITH VIDEO1 OR VIDEO2 USING

- The digital audio signals from the optical, coaxial or RF digital input and the analog signals from the 6-CH inputs can be listened to but cannot be recorded.
- Any On - Screen Display generated by the AVP-9080(or AVP-9080RDS) and shown on the monitor TV while recording with VIDEO 1 or VIDEO 2 will not be recorded.
- Any sources to be recorded using VIDEO 1 can only be selected by using the VIDEO 1 REC SELECTOR menu. Any sources to be recorded using VIDEO 2 can only be selected by using the INPUT SELECTOR menu.

Dubbing the audio and video signals from a video component onto VIDEO 1

1 Select the source to be recorded using the VIDEO 1 REC SELECTOR menu.

Example) When dubbing the audio and video signals from an LD player onto VIDEO 1



- The video and audio sources selected for recording using the VIDEO 1 REC SELECTOR menu are independent of the sources selected for listening/viewing using the INPUT SELECTOR menu.

2 Start recording on the VIDEO 1

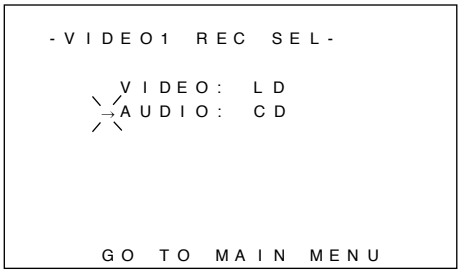
3 Start play on the LD player

- The audio and video signals from the LD player will be dubbed onto the VIDEO 1.
- To enjoy this source to be dubbed or other video and audio sources during dubbing, select the desired input sources using the INPUT SELECTOR menu and start play on the corresponding components.

Dubbing the audio and video signals separately onto VIDEO 1

1 Select the sources to be recorded using the VIDEO 1 REC SELECTOR menu.

Example) When dubbing the LD video signal and CD audio signal separately onto VIDEO 1



- The video and audio sources selected for recording using the VIDEO 1 REC SELECTOR menu are independent of the sources selected for listening/viewing using the INPUT SELECTOR menu.

2 Start recording on the VIDEO 1

3 Start play on the LD player

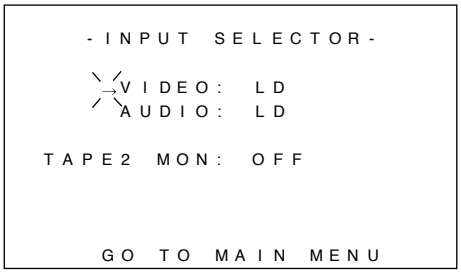
4 Start play on the CD player

- The audio signal from the CD player and the video signal from the LD player will be dubbed onto the VIDEO 1.
- To enjoy these sources to be dubbed or other video and audio sources during dubbing, select the desired input sources using the INPUT SELECTOR menu and start play on the corresponding components.

Dubbing the audio and video signals from a video component onto VIDEO 2

1 Select the desired inputs as recording sources except for VIDEO 2, using the INPUT SELECTOR menu.

Example) When dubbing the audio and video signals from LD player onto VIDEO 2



- When dubbing the audio and video signals from a video component, the source to be dubbed can be also selected with the INPUT SELECTOR knob or buttons.

2 Start recording on the VIDEO 2

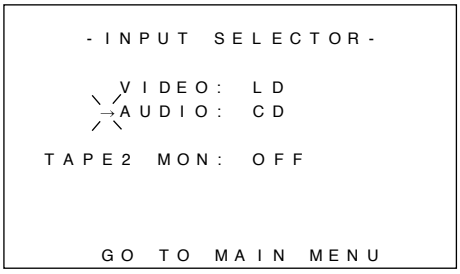
3 Start play on the LD player.

- The audio and video signals from the LD player will be dubbed onto the VIDEO 2 and you can enjoy LD on the monitor TV and from the speakers.

Dubbing the audio and video signals separately onto VIDEO 2

1 Select the desired inputs as recording sources respectively using the INPUT SELECTOR menu.

Example) When dubbing the LD video signal and CD audio signal separately onto VIDEO 2



2 Start recording on the VIDEO 2

3 Start play on the LD player

4 Start play on the CD player

- The audio signal from the CD player and the video signal from the LD player will be dubbed onto the VIDEO 2 and you can enjoy them on the monitor TV and from the speakers.

If a fault occurs, run through the table below before taking your unit for repair.
If the fault persists, attempt to solve it by switching the unit off and on again. If this fails to resolve the situation, consult your dealer. Under no circumstances should you repair the unit yourself as this will invalidate the warranty!

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	• The AC input cord is disconnected. • Poor connection at AC wall outlet or the outlet is inactive.	• Connect cord securely. • Check the outlet using a lamp or another appliance.
No sound	• The speaker cords are disconnected. • The master volume is adjusted too low. • The MUTE button is pressed to ON. • The digital input is not selected correctly • Incorrect selection of input source. • Incorrect connections between the components.	• Check the speaker connections on the power amplifier. • Adjust the master volume. • Press the MUTE button to cancel the muting effect. • Select the digital input correctly. • Select the desired input source correctly. • Make connections correctly.
No sound from the rear speakers	• Surround mode is switched off.(normal stereo mode) • Master volume and rear level are too low. • Monaural source is used. • Dolby 3 Stereo mode is selected.	• Select a surround mode. • Adjust master volume and rear level. • Select a stereo or surround source. • Select the desired surround mode.
No sound from the center speaker	• DTS,Dolby Digital, Dolby Pro Logic or Dolby 3 Stereo mode is not selected. • Master volume and center level are too low.	• Select the desired surround mode. • Adjust master volume and center level.
Stations cannot be received	• No antenna is connected. • The desired station frequency is not tuned in. • Antenna is in wrong position.	• Connect an antenna. • Tune in the desired station frequency. • Move antenna and retry tuning.
Preset stations cannot be received	• An incorrect station frequency has been memorized. • The memorized stations are cleared.	• Memorize the correct station frequency. • Memorize the stations again.
Poor FM reception	• No antenna is connected. • The antenna is not positioned for the best reception.	• Connect an antenna. • Change the position of the antenna.
Continuous hissing noise during FM reception, especially when a stereo broadcast is received.	• Weak signals.	• Change the position of the antenna. • Install an outdoor FM antenna.
Continuous or intermittent hissing noise during AM reception, especially at night.	• Noise is caused by motors, fluorescent lamps or lightning, etc.	• Keep the receiver away from noise sources. • Install an outdoor AM antenna.
Remote control unit does not operate.	• Batteries are not loaded or exhausted. • The remote sensor is obstructed.	• Replace the batteries. • Remove the obstacle.
Other Sherwood components do not react to remote control commands.	• DIGI LINK connections are not made properly.	• Make proper DIGI LINK connections.
A video label cannot be displayed.	• Mulfunction due to external influences such as static electricity, etc.	• Clear it using " To clear a video label" (Refer to "Rectifying or clearing a video label" on page 28)
OSD function cannot be availabe.	• Video connections between this unit and the monitor TV are not made correctly.	• Make proper video connections.

■ PRE AMPLIFIER SECTION

■ Analog Audio

- Total harmonic distortion, output 1V 1 kHz ..... 0.006 %
- Intermodulation distortion,
  60 Hz: 7 kHz = 4 : 1, 8 Ω, output 1V ..... 0.006 %

- Input sensitivity/impedance, output 1V
  Phono (MM) ..... 2 mV / 47 kΩ
  Phono (MC) ..... 0.2 mV / 100 Ω
  Line (CD, TAPE,VIDEO) ..... 200 mV / 47 kΩ
- Signal to noise ratio, IHF "A" weighted, output 1V
  Phono(MM) ..... 80 dB
  Phono(MC) ..... 70 dB
  Line (CD, TAPE, VIDEO) ..... 98 dB
- Frequency response
  Phono (MM), RIAA,30 ~ 20,000 Hz ..... ±0.5 dB
  Line (CD, TAPE, VIDEO), 10 ~ 110,000 Hz ..... + 0, -3 dB
- Output level
  TAPE REC,1 kΩ ..... 200 mV
- Bass/Treble control, 100 Hz/10 kHz ..... ±10 dB
- Maximum Output ..... 9 V

■ Digital Audio

- Sampling frequency ..... 32, 44.1, 48 kHz
- Digital input level
  Coaxial, 75 Ω ..... 0.5 Vp-p
  Optical, 660 nm ..... -15 ~ -21 dBm

■ VIDEO SECTION

- Television format ..... PAL
- Input sensitivity(= Output level), 75 Ω
  Video (Composite(normal)) ..... 1 Vp-p
  S-video (luminance signal) ..... 1 Vp-p
  (chrominance signal) ..... 0.286 Vp-p
  Component video (R-Y signal) ..... 0.5 Vp-p
  (B-Y signal) ..... 0.5 Vp-p
  (Y signal) ..... 1.0 Vp-p

■ FM TUNER SECTION

- Tuning frequency range ..... 87.5~108 MHz
- Usable sensitivity, THD 3%, S/N 30 dB ..... 12.8 dBf
- 50 dB quieting sensitivity, mono/stereo ..... 14.2/38 dBf
- Signal to noise ratio, 65 dBf, mono/stereo ..... 80/73 dB
- Total harmonic distortion, 65 dBf,1 kHz, mono/stereo ..... 0.15/0.25 %
- Frequency response, 20 Hz~15 kHz ..... ±0.5 dB
- Stereo separation, 1 kHz ..... 45 dB
- Capture ratio, 65 dB ..... 1.0 dB
- IF rejection ratio ..... 75 dB

■ AM TUNER SECTION

- Tuning frequency range ..... 522~1611 kHz
- Usable sensitivity, 400 mV/m ..... 12.5 mV
- Signal to noise ratio, 80 dB/m ..... 51 dB
- Selectivity ..... 25 dB

■ GENERAL

- Power supply ..... AC 230 V, 50 Hz
- Power consumption ..... 50 W
- Switched AC outlet ..... TOTAL 100 W max.
- Dimensions (W ×H ×D) ..... 440 ×142 ×380 mm(17-3/8 ×5-1/2 ×15 inches)
- Weight (Net) ..... 8.5 kg(18.7 lbs)

Note : Design and specifications are subject to change without notice for improvements.